

What is claimed is:

1. A forward oligonucleotide primer for dengue-1 virus consisting of the sequence  
5'-GAC ACC ACA CCC TTT GGA CAA-3'
2. A reverse oligonucleotide primer for dengue-1 virus consisting of the sequence  
5'-CAC CTG GCT GTC ACC TCC AT-3'
3. An oligonucleotide probe for dengue-1 virus consisting of the sequence 5'-AGA  
GGG TGT TTA AAG AGA AAG TTG ACA CGC G-3'
4. A forward oligonucleotide primer for dengue-2 virus consisting of the sequence 5'-  
CCG CGT GTC GAC TGT ACA A -3'
5. A reverse oligonucleotide primer for dengue-2 virus consisting of the sequence 5'-  
CAG GGC CAT GAA CAG TTT TAA -3'
6. An oligonucleotide probe for dengue-2 virus consisting of the sequence 5'-TTG  
GAA TGC TGC AGG GGA CGA GGA-3'
7. A forward oligonucleotide primer for dengue-3 virus consisting of the sequence 5'-  
GGG AAA ACC GTC TAT CAA TA-3'
8. A reverse oligonucleotide primer for dengue-3 virus consisting of the sequence 5'-  
CGC CAT AAC CAA TTT CAT TGG-3'
9. An oligonucleotide probe for dengue-3 virus consisting of the sequence 5'-CAC  
AGT TGG CGA AGA GAT TCT CAA CAG GA-3'
10. A forward oligonucleotide primer for dengue-4 virus consisting of the sequence 5'-  
TGA AGA GAT TCT CAA CCG GAC -3'
11. A reverse oligonucleotide primer for dengue-4 virus consisting of the sequence 5'-  
AAT CCC TGC TGT TGG TGG G-3'

12. An oligonucleotide probe for dengue-4 virus consisting of the sequence 5' - TCA  
TCA CGT TTT TGC GAG TCC TTT CCA -3'
13. A group specific forward oligonucleotide primer for dengue virus consisting of the  
sequence 5'-AAG GAC TAG AGG TTA KAG GAG ACC C-3'
14. A group specific reverse oligonucleotide primer for dengue virus consisting of the  
sequence 5'-GGC GYT CTG TGC CTG GAW TGA TG-3'
15. A group specific oligonucleotide probe for dengue virus serotypes 1 and 3  
consisting of the sequence 5'- FAM-AAC AGC ATA TTG ACG CTG GGA GAG  
ACC-TAMRA -3'
16. A group specific oligonucleotide probe for dengue virus serotypes 2 and 4  
consisting of the sequence 5'- MAX-AAC AGC ATA TTG ACG CTG GGA AAG  
ACC-TAMRA -3'
17. A method of detecting the presence of Dengue virus by polymerase chain reaction,  
said method comprising:
  - a) providing the RNA of said Dengue virus or a test sample of RNA suspected  
of being Dengue virus RNA, RT enzymes, dATPs, dGTPs, dCTPs, dTTPs  
and buffer containing divalent cations such as magnesium cation in  
sufficient quantities so reverse transcription of a cDNA copy occurs,
  - b) providing group specific or serotype-specific primers and probes of Dengue  
in sufficient quantities so amplification of a target sequence of DNA occurs,
  - c) detecting the presence of the amplification products of the target sequence  
of DNA as an indication of the presence of Dengue virus.

18. A method of detecting the presence of Dengue-1 virus by polymerase chain reaction, said method comprising:

- a) providing the RNA of said Dengue-1 virus or a test sample of RNA suspected of being Dengue-1 virus RNA, RT enzymes, dATPs, dGTPs, dCTPs, dTTPs and buffer containing divalent cations in sufficient quantities so reverse transcription of a cDNA copy occurs,
- b) providing serotype-specific primers and a probe for Dengue-1 virus in sufficient quantities so amplification of a target sequence of DNA occurs,
- c) detecting the presence of the amplification products of the target sequence of DNA as an indication of the presence of Dengue-1 virus.

19. A method of detecting the presence of Dengue-2 virus by polymerase chain reaction, said method comprising:

- a) providing the RNA of said Dengue-2 virus or a test sample of RNA suspected of being Dengue-1 virus RNA, RT enzymes, dATPs, dGTPs, dCTPs, dTTPs and buffer containing divalent cations in sufficient quantities so reverse transcription of a cDNA copy occurs,
- b) providing serotype-specific primers and a probe for Dengue-2 virus in sufficient quantities so amplification of a target sequence of DNA occurs,
- c) detecting the presence of the amplification products of the target sequence of DNA as an indication of the presence of Dengue-2 virus.

20. A method of detecting the presence of Dengue-3 virus by polymerase chain

reaction, said method comprising:

- a) providing the RNA of said Dengue-3 virus or a test sample of RNA suspected of being Dengue-1 virus RNA, RT enzymes, dATPs, dGTPs, dCTPs, dTTPs and buffer containing divalent cations in sufficient quantities so reverse transcription of a cDNA copy occurs,
- b) providing serotype-specific primers and a probe for Dengue-3 virus in sufficient quantities so amplification of a target sequence of DNA occurs,
- c) detecting the presence of the amplification products of the target sequence of DNA as an indication of the presence of Dengue-3 virus.

21. A method of detecting the presence of Dengue-4 virus by polymerase chain

reaction, said method comprising:

- a) providing the RNA of said Dengue-4 virus or a test sample of RNA suspected of being Dengue-1 virus RNA, RT enzymes, dATPs, dGTPs, dCTPs, dTTPs and buffer containing divalent cations in sufficient quantities so reverse transcription of a cDNA copy occurs,
- b) providing serotype-specific primers and a probe for Dengue-4 virus in sufficient quantities so amplification of a target sequence of DNA occurs,
- c) detecting the presence of the amplification products of the target sequence of DNA as an indication of the presence of Dengue-4 virus.